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L30 and geographic same database	18

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<u>L26</u>	L25 and parcel	217	<u>L26</u>
<u>L25</u>	map and database	18275	<u>L25</u>
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<u>L24</u>	5471392.pn.	1	<u>L24</u>
<u>L23</u>	5648768.pn.	1	<u>L23</u>
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<u>L21</u>	L20 and rectangle	25	<u>L21</u>
<u>L20</u>	L19 and parcel	83	<u>L20</u>
<u>L19</u>	geographic same database	1748	<u>L19</u>
<i>DB=USPT; PLUR=YES; OP=OR</i>			
<u>L18</u>	5699255.pn.	1	<u>L18</u>
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<u>L16</u>	L15 and sub-areas	0	<u>L16</u>
<u>L15</u>	L14 and parcels	37	<u>L15</u>
<u>L14</u>	L13 and geographic same features	225	<u>L14</u>
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<u>L12</u>	((340/991)!.CCLS.)	132	<u>L12</u>
<u>L11</u>	((340/990)!.CCLS.)	722	<u>L11</u>
<u>L10</u>	((340/995)!.CCLS.)	1477	<u>L10</u>
<u>L9</u>	((340/395)!.CCLS.)	0	<u>L9</u>
<u>L8</u>	((340/390)!.CCLS.)	0	<u>L8</u>
<u>L7</u>	((340/\$)!.CCLS.)	95513	<u>L7</u>
<u>L6</u>	((701/209)!.CCLS.)	355	<u>L6</u>
<u>L5</u>	((701/200)!.CCLS.)	810	<u>L5</u>
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<u>L3</u>	((707/\$)!.CCLS.)	13156	<u>L3</u>
<u>L2</u>	((707/104.1)!.CCLS.)	1534	<u>L2</u>
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L17: Entry 14 of 29

File: USPT

Sep 19, 2000

US-PAT-NO: 6121924

DOCUMENT-IDENTIFIER: US 6121924 A

TITLE: Method and system for providing navigation systems with updated geographic data

DATE-ISSUED: September 19, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Meek; James A.	Palatine	IL		
Crowley; Paul	Buffalo Grove	IL		
Bouzide; Paul M.	Chicago	IL		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Navigation Technologies Corporation	Rosemont	IL			02

APPL-NO: 9/ 000570 [PALM]

DATE FILED: December 30, 1997

INT-CL: [7] H04 B 7/185, G01 S 5/02

US-CL-ISSUED: 342/357.13; 701/208, 701/210, 340/995

US-CL-CURRENT: 342/357.13; 340/995, 701/208, 701/210

FIELD-OF-SEARCH: 342/357.13, 701/208, 701/209, 701/210, 701/212, 340/990, 340/995

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

 [Search Selected](#) [Search ALL](#)

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5367685</u>	November 1994	Gosling	
<u>5944768</u>	August 1999	Ito et al.	701/200
<u>5951620</u>	September 1999	Ahrens et al.	701/200

ART-UNIT: 362

PRIMARY-EXAMINER: Blum; Theodore M.

ATTY-AGENT-FIRM: Kozak; Frank J. Kaplan; Lawrence M.

ABSTRACT:

A system and method for providing updated geographic data for use by a navigation application program. The navigation application program is at a first version level

and uses geographic data in a geographic database. An updated geographic database is provided to the navigation application program. The updated geographic database is at a second version level which is later than the first version level. Also provided to the navigation application program are one or more replacement routines. These replacement routines may be stored with the updated geographic database on a computer-readable medium or may be provided separately. The one or more replacement routines are used by the navigation application program either at initialization or during runtime. The one or more replacement routines are called to access or use the data in the updated geographic database. The one or more replacement routines are preferably in an interpretive language and executed by a virtual processor. The virtual processor may be part of the navigation application program. The one or more replacement routines can be used by the navigation application program thereby enabling the navigation application program which is at the first version level to use the updated geographic data which is at second version level.

22 Claims, 11 Drawing figures

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1. Document ID: US 5648768 A

L23: Entry 1 of 1

File: USPT

Jul 15, 1997

US-PAT-NO: 5648768

DOCUMENT-IDENTIFIER: US 5648768 A

TITLE: System and method for identifying, tabulating and presenting information of interest along a travel route

DATE-ISSUED: July 15, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bouve; Thomas Tracy	Alexandria	VA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Mapsys, Inc.	Alexandria	VA			02

APPL-NO: 8/ 366642

DATE FILED: December 30, 1994

INT-CL: [6] G08 G 1/123

US-CL-ISSUED: 340/988, 340/905, 340/995, 364/449.1

US-CL-CURRENT: 340/988; 340/905, 340/995, 701/207

FIELD-OF-SEARCH: 340/988, 340/905, 340/990, 340/995, 364/444, 364/449, 73/178R, 342/457

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4546439</u>	October 1985	Esparza	340/995
<u>4570227</u>	February 1986	Tachi et al.	340/995
<u>4630209</u>	December 1986	Saito et al.	340/995
<u>4646089</u>	February 1987	Takanabe et al.	340/995
<u>4675676</u>	June 1987	Takanabe et al.	340/995
<u>4951211</u>	August 1990	De Villeroche	340/995
<u>4951212</u>	August 1990	Kurihara et al.	340/995
<u>4974170</u>	November 1990	Bouve et al.	340/995
<u>5021961</u>	June 1991	Ross et al.	340/990
<u>5031104</u>	July 1991	Ikeda et al.	340/995
<u>5146219</u>	September 1992	Zechnall	340/995
<u>5172321</u>	December 1992	Ghaem et al.	340/995
<u>5220507</u>	June 1993	Kirson	340/995
<u>5371678</u>	December 1994	Nomura	340/995
<u>5424951</u>	June 1995	Nobe et al.	340/995
<u>5442557</u>	August 1995	Kaneko	340/995

ART-UNIT: 267

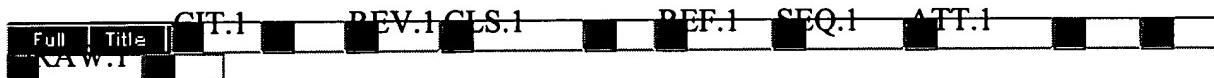
PRIMARY-EXAMINER: Swarthout; Brent A.

ATTY-AGENT-FIRM: Lowe, Price, LeBlanc & Becker

ABSTRACT:

A system for identifying and presenting information relating to travel within a geographic region, has a data base for storing a plurality of travel routes within the geographic region and one or more types of travel information associated with one or more of the plurality of travel routes. A keyboard or other device is provided to input first and second geographic locations within the geographic region to the system. A computer processor retrieves at least one travel route between the first and second geographic locations from the stored plurality of travel routes. The processor also retrieves travel information corresponding both to at least one type of travel information and to the retrieved travel route(s) from the stored types of travel information. A display, printer or voice synthesizer presents the retrieved travel route(s) and travel information to a user of the system. The processor also computes cumulative mileage and travel time indicators which locate items of retrieved travel information with respect to the selected travel route.

14 Claims, 6 Drawing figures

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Terms	Documents
5648768.pn.	1

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